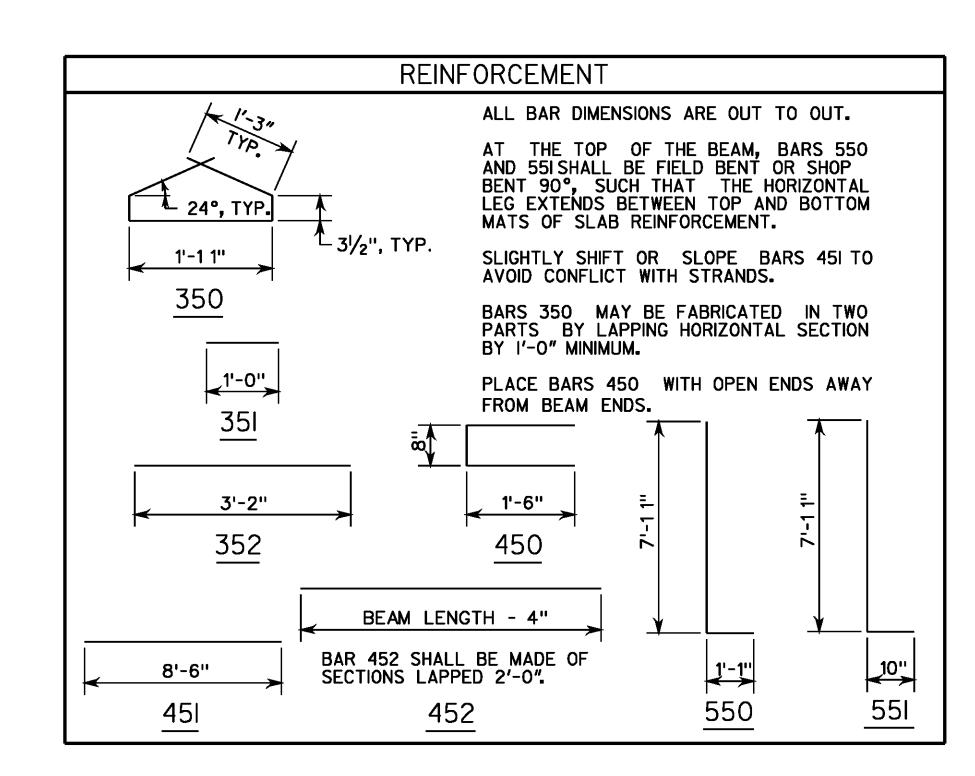
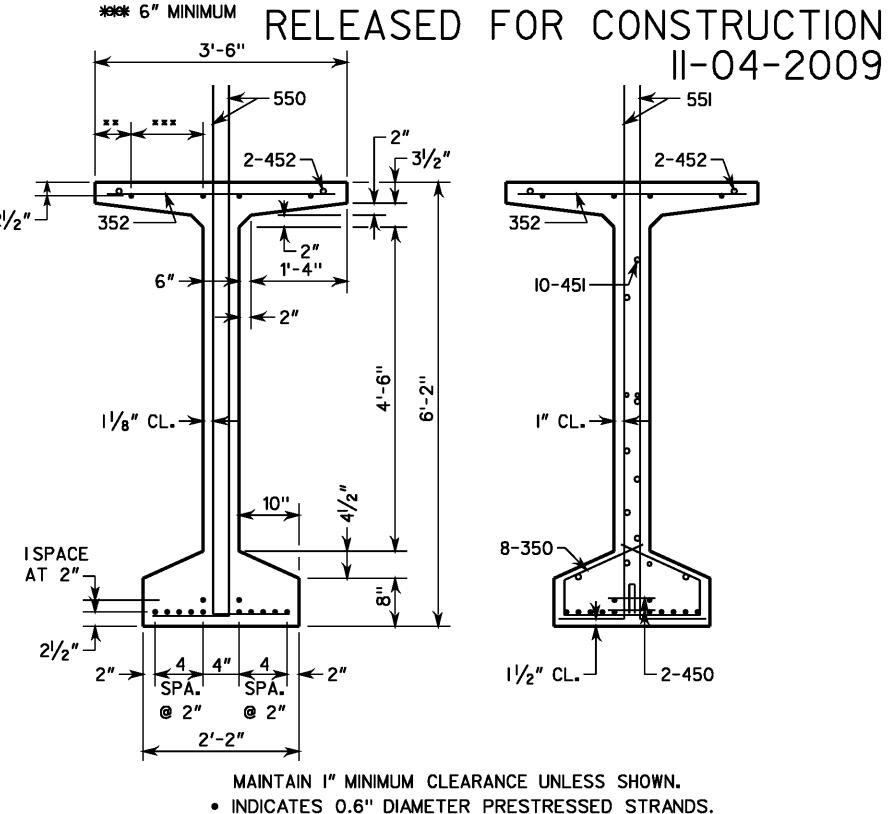


## NOTES

- I. BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 9'-O" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.
- 2. CHAMFER EDGES OF BEAMS 1/2", 3/4" OR 1".
- 3. HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE 1/8" EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND FLASTIC SHORTFNING.
- 4. AT & BEARING, FORM A 11/2" DIAMETER X 7" DEEP HOLE AT THE FIXED ENDS AND A 6" X 11/2" X 7" DEEP SLOT AT THE EXPANSION ENDS FOR A 11/4" DIAMETER SMOOTH DOWEL. SEE PLAN AND ELEVATION SHEET FOR LOCATION OF FIXED AND EXPANSION ENDS.
- 5. TOPS OF BEAMS SHALL BE ROUGH FLOATED AT APPROXIMATELY THE TIME OF INITIAL SET. ENTIRE TOP SHALL BE SCRUBBED TRANSVERSELY WITH A COARSE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGHENED SURFACE FOR BONDING TO THE SLAB. ROUGHENED SURFACE SHALL HAVE AN AMPLITUDE OF APPROXIMATELY 1/4". CONCRETE FINS OR PROJECTIONS SHALL BE REMOVED TO PRODUCE A VERTICAL FACE AT THE EDGE OF THE BEAM.
- 6. NON-COMPOSITE DEAD LOAD DEFLECTION (ANC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF THE SLAB AND COPING.
- 7. COMPOSITE DEAD LOAD DEFLECTION (ΔC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF RAISED MEDIAN, PARAPET AND SIDEWALK.
- 8. STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.
- 9. PRESTRESSING DATA IS AS FOLLOWS:
  - A. USE 16 0.6" DIAMETER (A = 0.217 SQ IN) LOW RELAXATION STRANDS.
    PRETENSION TOP FOUR (4) STRANDS TO 9,960 LBS EACH. PRETENSION
    BOTTOM STRANDS TO 43.943 LBS EACH.
  - B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (fi) OF 4,500 PSI.
  - C. INCLUDING THE TOP STRANDS, THE TOTAL JACKING FORCE OF PRETENSIONING IS 567,156 LBS.
  - D. INCLUDING THE TOP STRANDS, THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS 477.953 LBS.
- IO. CONCRETE STRENGTH ( $f_c$ ) = 5,000 PSI.
- II. ALLOWABLE PSC BEAM TENSION = 424 PSI.





\*\* 8" MINIMUM

PROJECT NUMBER

**GA** CSNHS-0008-00(415)

NO. SHEETS

311 | 472

SECTION AT MIDPOINT

2" DIAMETER HOLE

4-35I AT 4" EACH WAY

CUT OFF EXCESS DIAPHRAGM BAR I" FROM BEAM FACE.

● DIAPHRAGM BAR SHALL BE A I" DIAMETER PLAIN BAR, THREADED 5" ON EACH END, WITH 1/4" X 31/2" DIAMETER WASHERS AND HEX NUTS (ASTM A 709 GRADE 36).

DIAPHRAGM BAR SHALL BE TIGHTENED AS PER SUB-SECTION 507.3.05.C OF THE GEORGIA DOT SPECIFICATIONS.

AFTER EXCESS DIAPHRAGM BAR HAS BEEN CUT OFF, END OF DIAPHRAGM BAR, WASHER, AND NUT EXPOSED IN RECESS SHALL BE PAINTED WITH SPECIAL PROTECTIVE COATING NO. 2 P AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. AFTER PAINTING, THE RECESS SHALL BE FILLED WITH AN APPROVED EPOXY GROUT.

GALVANIZING OF DIAPHRAGM BAR AS PER SUB-SECTION 865.2.01.B.12 OF THE GEORGIA DOT SPECIFICATIONS IS NOT REQUIRED.

RECESS DETAIL FOR DIAPHRAGM BAR ENDS

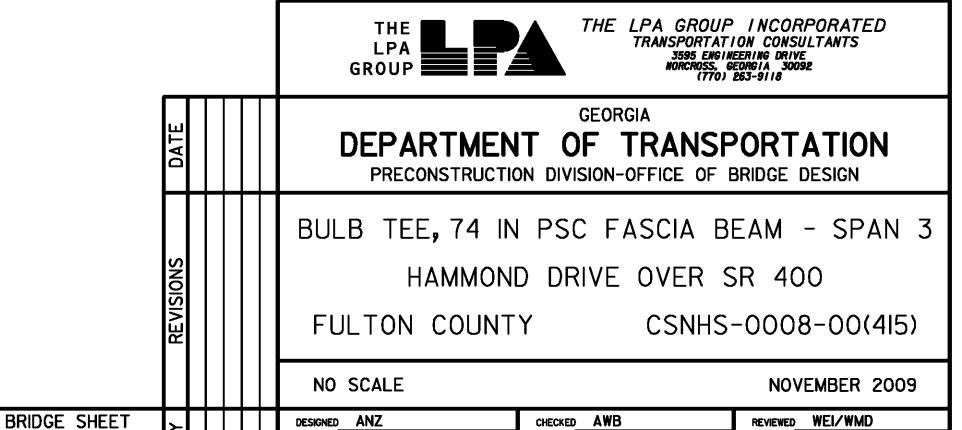
DRAWN BSB

13 OF 25

BRIDGE NO. I

DRAWING NO. 35-13

APPROVED PVL



DESIGN GROUP ACB

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